Tubes Are Welded by Means of High-frequency S/C29/60/000/06/16/020 BOO 8/BOO 7

to 3 mm. The new technique is considerably more rapid than all other welding techniques. The specific power consumption is lower than in the case of electric resistance- and arc welding. The new technique is especially effective in the production of tubes from stainless steel having wall thicknesses of between 1 and 3 mm. There is 1 figure.

ASSOCIATION: Laboratoriya svarki Noskovskogo trubnogo zavoda (Welding Laboratory of the Moscow Tube Mill)

Card 2/2

Using high-frequency currents for pipe welding. Tekh.mol. 28 no.6:34 160. (MIRA 13:7)	
l. Machal'nik laboratorii svarki Moskovskogo trubnogo	
savoda. (Induction heating) (Pipe-Welding)	
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S/125/60/000/010/011/015 A161/A133

AUTHORS: Konyushenko, A.T., Golovkin, R.V., Tseytlin, Kh.A., Strunkin, V.A.

TITLE: Resistance of Welded Titanium Pipes in Hydrochloric Acid Saturated with Chlorine

PERICIDICAL: Automaticheskaya avarka, 1960, No. 10, pp.67-71

TEXT: The fabrication of titanium tubes by pressing is connected with high metal waste and tool consumption. In view of this fact and of the growing demand of the chemical industry in titanium pipes, the Moskovskiy trubnyy demand of the chemical industry in titanium pipes, the Moskovskiy trubnyy demand of the chemical industry in titanium pipes, the Moskovskiy trubnyy demand (Moscow Tube Plant) has carried out tests in 1958 to fabricate these tubes by welding, and a technology has been developed for the welding of tubes of 12, 16, 25, 58 and 76 mm in diameter and 1-2 mm wall from ET1 (VT1) tubes of 12, 16, 25, 58 and 76 mm in diameter and 1-2 mm wall from ET1 (VT1) titanium. High-grade argon was used for shielding in the way described in a work that will soon be published (Ref.1) and which concerns the welding of tantalum. It is known from another work (Ref.2) that titanium is resistant to HCl solutions being continually saturated with chlorine, but no information could be found in literature (Ref.3-6) on the behaviour of titanium Card 1/5

S/125/60/000/010/011/015 A:6:/A133

Resistance of Welded Titanium Pipes in Hydrochloric Acad Sacarated with Chlorine

welds. VT1 titlandum tubes of 25 mm diameter and 1.5 mm wall were welded with 160 amp, 12 volt current and 0.6 m/min welding speed, using 4 mm diameter electrodes and a 12 mm diameter nozzle, while the argon consumption was 9 liter/min on the arc and 6 liter/min in the blast. The test specimens were rings cut from the tubes and placed into glass test tubes on glass hooks. Chlorine was blown comtinually through the test solution (water solution). A test lasted 200 hours. The resistance of the metal was measured by the loss of weight, mechanical properties and microstructure. A corrosion rate of only 0.01 mm per year was found in a 5% HCl solution at 90°C, and 0.1 mm per year in a 20% solution at 60°C. The resistance in fumes was several times higher. The corrosion rate remained practically constant. The microstructure of all specimens was: cast metal of coarse-acicular shape in the weld zone, and fine apherical grain shape with twins in base metal (Fig. 2,3). The test results prove the applicability of welded VT1 titanium equipment or tubes in HCl being continually saturated with chlorine; a 5% HCl concentration is permissible for work in temperature not higher than 90°C, and a 20% Card 2/5

#### "APPROVED FOR RELEASE: 09/24/2001

CIA-RDP86-00513R000515820012-7

EMT(A)/HMT(L)/HMT(m)/HMP(±)/HMT LJP(c) JD/M/JM/RM AP6027732 SOURCE CODE: UR/0020/66/169/004/0807/0809 AUTHOR: Goloving, Ye. S.; Kotova, L. L. 56 B ORG: Power Engineering Institute im. G. M. Grizhizhanovskiy (Energeticheskiy institut) TITLE: Laws governing high-temperature reactions of carbon 27 SOURCE: AN SSSR. Doklady, v. 169, no. 4, 1966, 807-809 TOPIC TAGS: carbon, carbon dioxide, carbon diffusion, carbon density, high temperature encetos phenomenon ABSTRACT: In earlier studies the authors have observed changes in the density of carbon in the course of its interaction with chemically reactive cases at above 2300K. It was assumed that this phenomenon is a result of the diffusion of carbon atoms from the bulk to the surface of solid carbon. This assumption was confirmed by a study of carbon density distribution in carbon spheres (d., 15 mm) in the course of this interaction at various temperatures with  $CO_2$  diluted with  $N_2$  ( $CO_2$  concentration, 50%; gas flow velocity, 0.6 m/sec). The diffusion coefficients  $(D_c)^2$  for carbon atoms in solid carbon for various temperatures were calculated by substituting the experimental density values in Gauss error integral r, •ĸ 2770 2770 2700 2000 2070 2070 2070 2200 2200 11<sub>0</sub>·104, 015/80C 0,60 0,62 .2,01 2,24 4,23 1,19 4,54 6,78 8,00a **Card** 1/2 UDC: 541,124

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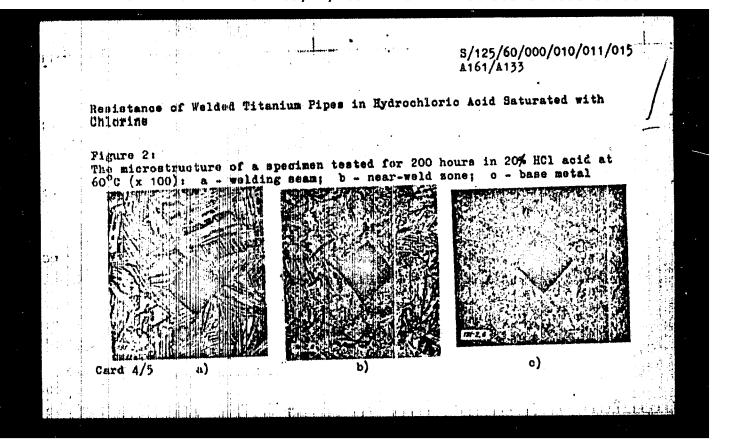
Resistance of Welded Titanium Pipes in Hydrochloric Acid Saturated with Chlorine

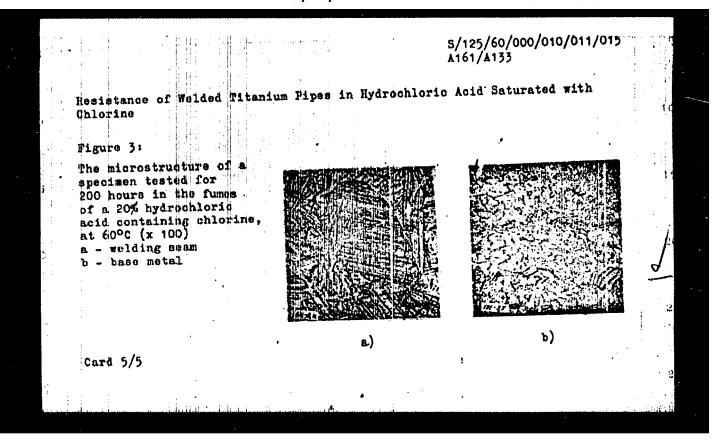
concentration at temperature of not higher than 60°C. The free chlorine content must be about 0.2 g in 100 cm<sup>3</sup>. There are 3 figures and 6 references:
4 Spyiet-bloc and 2 non-Soviet-bloc.

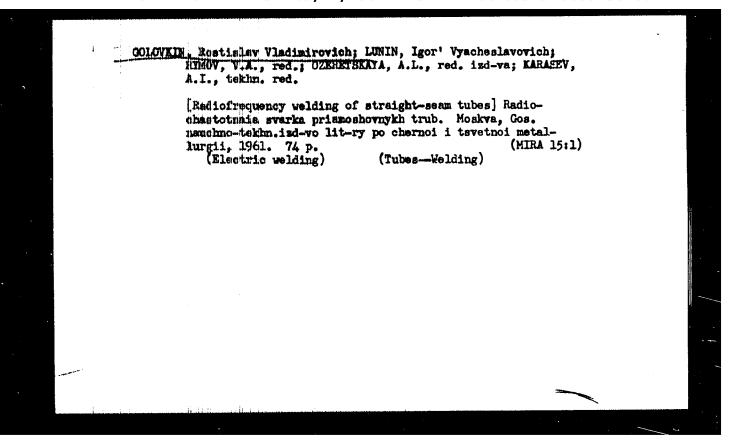
ASSOCIATION: Moskowskiy trubnyy zavod (Moscow Tube Plant), (A.T. Konyushenko and R.V. Golovkin); NIOPiK im. Voroshilova (NIOPandK im. Voroshilov) (Kh.A. Tseytlin, V.A. Strunkin)

SUBMITTED: March 14, 1960

Card 3/5







3/137/62/000/004/172/201 A154/A101

12300

Lumin, I.V.; Golovkin, R.V.

AUTHORS:

TITLE:

Madio-frequency resistance welding of tubes

PERIODICAL: Referativnyy zhurnal, Metallurgiya. no. 4, 1962, 38, abstract 4E204 (Sb. "Prom. primeneniye tokov vysokoy chastoty v elektrotermii", M.

NITTVCh im. V.P. Vologdin is developing in conjunction with the Mos-ROYSKIY trubnyy mayed (Moscow Tube Plant) the technology and equipment for making tubes from stainless and carbon steels by h-f resistance welding. The use of current in the radio-frequency band makes it possible to achieve a greater concentration of energy than in existing pipe-welding methods. Radio-frequency resistance welding of carbon steel pipes makes a fusion process possible. Due to the small volume of molten and heated metal the amount of burr is small. By this method tubes from stainless steels and alloys may be welded at speeds many times greater than those possible with existing methods, and a weld whose anticorrosion Breater than thome possible with existing medicule, and a note with a note and setal may be ob-

Card 1/2

Radio-frequency resistance welding of tubes

tained immediately after the welding.

[Abstracter's note: Complete translation]

Card 2/2

POLUKHIN, P. I., prof., doktor tekhn. nauk; OSADCHIY, V. Ya., kand. tekhn. nauk; EIMOV, V. A., inzh.; GOLOVKIN, R. V., inzh.; KRICHEVSKII, Ye. M.

Experimental investigation of power parameters of electric pipe welding machines. Sbor. Inst. stali i splav. no.40:451-459 162. (MIRA 16:1)

1. Moskovskiy institut stali i Moskovskiy trubnyy zavod.

(Electric welding-Equipment and supplies)

KONYUSHFRED; A.T.; COLOVKIN, R.V.; COL'RENG, V.Ya.; ORLOV, Ye.D.

Radio-requency welding of straight-seam tubes on the 6-32 machine. Metallurg 8 no.10:24.26 0 '63. (MIRA 16:12)

1. Mbskovskiy trubnyy savod.

THET YAKOV, Fedor Yerel'yanovich; GOLOVKIN, Hostislav Vladimirovich; GOL'BERG, Viktor Yakovlevich

[haking welded pipes of titanium and its alloys] Proizvodstvo svarnykh trub iz titana i ego splavov. Moskva, Izà-vo "Metallurgila," 1964. 53 p. (MIRA 17:6)

	ACCESSION NR: AP4009281 8/0125/64/000/001/0021/0024		
	AUTHOR: Konyushenko, A. T.; Golovkia, R. V.; Kononova, V. I.; Shevakia, Yu. F.		
	TITLE: Investigating resistance welding of tubing at 300 cps		
	SOURCE: Aviomaticheskaya svarka, no. 1, 1964, 21-24 TOPIC TAGS: welding, resistance welding, tube welding, 300 cps resistance welding, tube resistance welding	tançe	**************************************
	ABSTRACT: An investigation of the possibility of manufacturing welded tubing equal in strength to seamless tubing is reported. At 100, 200, ar tubing equal in strength to seamless tubing is reported. At 100, 200, ar tubing equal in strength to seamless tubing welded at a rate of 30-87 m cps, tubing [145 batches] was experimentally welded at 300 cps was was found that the ultimate strength of the tubing welded at 300 cps was	n/min. R Spēcimens	
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# GOLOVIEKIE, V.; GHILOVSKOY, D.; KOTLYARSKIY, A.

Conveyers must have a full load! From.koop. 14 no.3:27-28 Mr 160. (MIRA 13:7)

1. Rukowoditel' sektora remonta Mauchno-issledovatel'skogo
tekhnokhimicheskogo instituta (for Golovkin). 2. Starshiye inshenery
sektora remonta Mauchno-issledovatel'skogo tekhnokhimicheskogo
instituta (for Gnilovskoy, Kotlyarskiy).

(Shoe industry)

COLOVKIE, V., general leytenant

Guidanne at the Communist Youth League is the prime objective of political organisations and party groups. Komm. Voorush.Sil 3 no.22:35-41 H 162. (MIRA 15:12)

I. Chien Voyannogo soveta - nachalinik politicheskogo uprawisniya Kiyevakogo voyannogo ekruga.

(Russia---Army---Political activity)

(Communist Youth League)

GOLOVKIN, V., general-leytenant

Organizational work, the key to success. Komm. Vooruzh. Sil 46 no.19:19-26 O '65. (MIRA 18:12)

1. Chlen Voyennogo soveta, nachal'nik politicheskogo upravleniya Kiyevskogo voyennogo ekruga.

POZDNYAROWA, V.Tu; GOLOVKIN, V.4.

Identification of bensamen with the and of nicrostystalloscopy and crystal optics. Apt. delo 12 ro.5:60-62 5-0 65.

(MIRA 16:11)

1. Livdyskiy meditsinskiy institut.

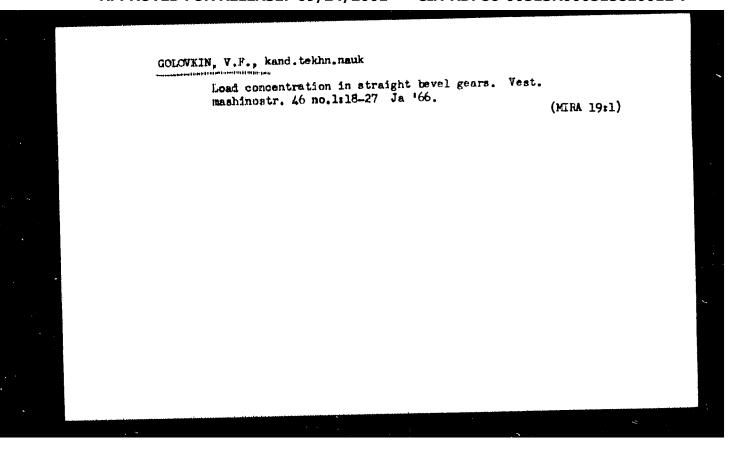
COLOWKIN, U.A. [Nolowkin, V.O.]  Hidrogratallomopic reactions to ditilin and diplacin. Farmatser.zhur. 20 no.6:34-37 "65. (MIRA 19:1)  L. Kafedra tekhnologii lekarstv L'vovskogo meditainskogo instituta (saveduyushchiy kafedroy prof.V.T.Pozdnyakova).	Midrogratalloscopic reactions to ditilin and diplacin. Mannatacy.zhur. 20 no.6:34-37 65. (MIRA 19:1)							
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						iskogo ikova).	ein. (MIRA	
						27	19:1)	
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### GOLOVKIN, V.A. [Holovkin, W.O.]

Resetions for dicoline and tetamon identification and their use in testing medicinal forms. Farmatsev. zhur. 20 no.5: 47-50 \*\*65. (MIRA 18:11)

1. Kafedra tekhnologii lekarstv L'vovskogo meditsinskogo instituta; zaveduyushchiy kafedroy prof. V.T. Pozdnyskova. Submitted November 25, 1964.

GOLOWKIN, W.D.	
River regulation. Put' i put. khoz. 7 no.5:34-35 163. (MIRA 16:7)	
l. Nachal'nik distantsii, Glazov, Gor'kovskoy dorogi. (Railroad engineering) (Rivers—Regulation)	



GALKOVSKAYA, M.G., kand.tekhn.nauk; HAUMOV, A.I.; PYATLIE, A.A.; SVIRLHOV, A.A.; SEPOV, F.G.; EHODUEOV, M.Ye., kand.yurid.nauk;
SHAMCHUROV, P.W., kand.tekhn.nauk; SOYUZOV, A.A., prof., doktor
tekhn.nauk, red.; ACLCYMIKOV, V.I., kand.tekhn.nauk, red.;
ZOTOVA, V.V., kand.tekhn.nauk, red.; SEMCHOV, Yu.X., red.;
ALHESHYHV, V.I., red.ind-va; YERMAKOVA, T.T., tekhn.red.

[River navigator's manual] Spravochnik shturmana rechnogo flota.

Pod obshchei red. A.A.Seiusova. Moskva, Isd-vo "Rechnoi transport,"

1960. 631 p. (MIRA 13:7)

(Inland navigation)

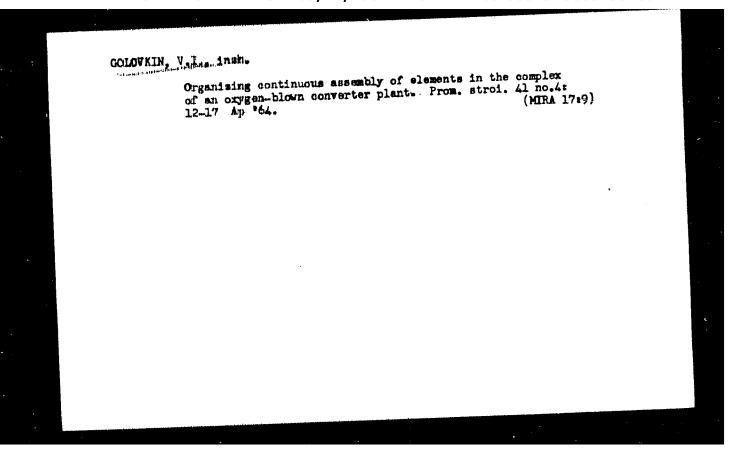
TUMIN, Naganail Aleksandrovich, kand. tekhn. nauk, dots.;

ARTAMONECHEV, Aleksandr Nikolaysvich, kand. tekhn. nauk,
dots.; MISHIMA, Mariya Nikolaysvna, kand. tekhn. nauk,
dots.; RAGOZIM, Boris Kupriyanovich, kand. tekhn. nauk;
GOLOVNIKOV. V.I., st. nauchn. sotr., kand. tekhn. nauk,
retsemment; BUCHIM, Ye.D., st. nauchn. sotr., retsemsent;
REZNICHEMKO, U.S., st.prep., retsemsent; FOMKINSKIY, L.I.,
insh., red.; MORALEVICH, O.D., red.izd-va; RIDNAYA, I.V.,
tekhn. red.

[Organization of river flast operations] Organizatsiia raboty flota; gadachi i raschety. Moskva, Isd-vo "Rechnoy transport," (MIRA 16:8)

l. Zavedujushchiy kafedroy "Organizatsiiya raboty flota i portov" Novosibirskogo instituta inshemerov vodnogo transporta (for Yumin).

(Inland water transportation)



CHAPLINDKATA, M.G. [Chardyns ka, M.H.]; GOLOVKIN, V.O. [Holovkin, V.S.], student

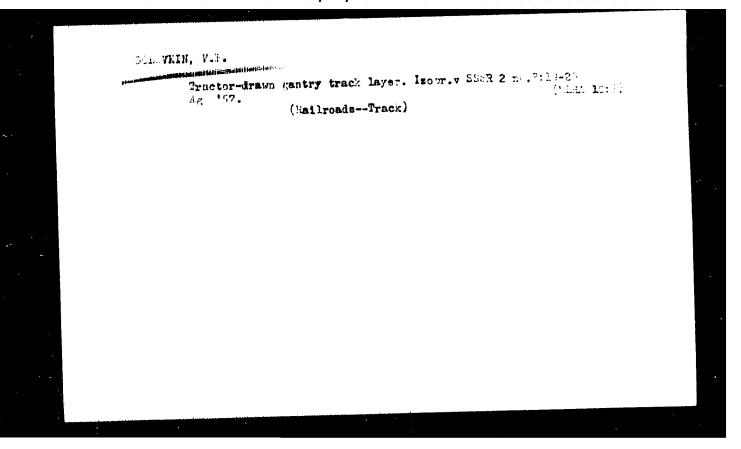
Antimicrobic effect of some extracts from calendula inflorescences. Farmatsev. zhur. 18 no.2:56-60 '63. (EIRA 17:10)

1. Liverskiy meditsinskiy institut.

MITIE, Aleksey Mikhaylevich; GOLOVKIE, V.P., inshener; SOROKIE, M.E., inshener, redaktor; KAEDYKIE, A. 18., Vermicheskiy redaktor.

[Houtine maintenance of railroad tracks on a work section] Tekushchee sedershaule puti na rabechem etdelenii. Neakva, Ges. transportuse shelesmederesh. izd-we, 1954. 23 p. (MIRA 8:5)

1. Brigadir puti Orlovskey distantsii Moskevske-Kurske-Dembasskey deregi (for Mitia). (Railreads--Frack)



RUDOCHEMIO, A.V., insh.; COLOVKIN, V.P., insh.

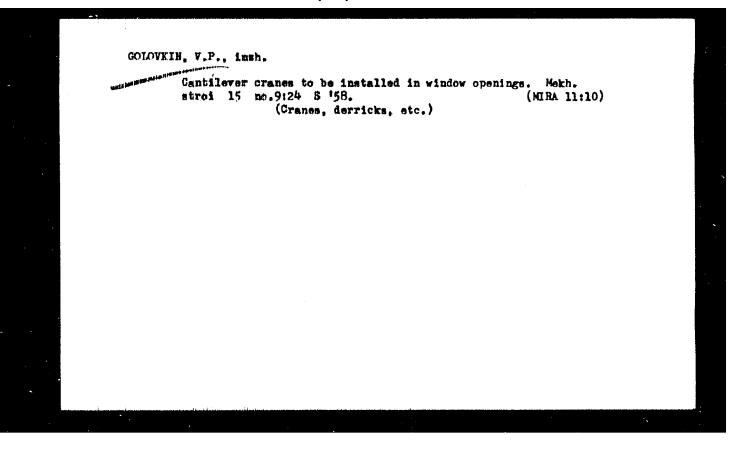
New method of strengthening wheel rims. Elek. i tepl.tiaga 2 no.4:28

Ap '5F. (Car wheels)

GOLOWEI A. W. P., insh.; BULGAK, Ye. V., insh.

Scraper winch. Put' i put. khoz. no. 7:44 Jl '58. (MIRA 11:7)

(Winches)



GOLOVKIE, V.P., inch.; BULGAK, Ye.V., inch.

\*\*\*Proposition of the state of the sta

***	GOLOVKIN, V.I.
	Let's improve the large-block assembly of structural elements.  Prom. stroi. 39 no.10:27-30 0 '61. (MIRA 14:10)
	1. Trest Donbasstal konstruktsiya. (Building machinery)
:	

AUTHORS: Lyashchenko, B.G., Litvin, D.F., Puzey, I.M., Abov, Yu.G.

and Golovkin, V.S.

TITLE: Investigation of the Defect Structure of Metallic Monocrystals by a Neutron Diffraction Method (Izucheniye defektnoy struktury metallicheskikh monokristallov

meytromograficheskim metodom)

PERIODICAL: Kristallografiya, 1958, Vol.3, Nr 2, pp 148 - 154 (USSR).

ABSTRACT:
A neutronographic investigation of the fragmentary structure of single crystals of nickel alloys has been made and the effect of this structure on the character and intensity of the scattered neutron beams is demonstrated. A short review of work on the neutronographic investigation of the structures of synthetic single crystals is included.

One of the consequences of the low absorption of neutrons in most materials is the importance of secondary extinction.

Bacon has shown that, for K-ray formulae to apply, the dimensions of a single mosaic crystal should be proportional to the width of the Darwin curve (angular distribution of the mosaic blocks). For KBr with a Darwin width of less than 3' this limiting thickness is 1.5 - 2 mm. The effect of volume defects of dimensions greater than those of the mosaic blocks is of interest and

. 70-3-2-3/26 Investigation of the Defect Structure of Metallic Monocrystals by a Neutron Diffraction Method

leads to the break-up of diffraction spots into small patches. 14 specimens of monocrystals have been examined. They were alloys of Ni and Fe with different quantities of Mo, Cr and Cu. The spherical specimens were etched with a mixture of nitric and hydrochloric acids and vacuum annealed for 4 hours at 750 °C. The orientation of the crystals could be seen from the each patterns. Finer orientation was achieved with a magnetic method to 1-2. The spheres were finally polished so that the maximum differences in diameter were less than 1  $\mu$ in 7-12 mm. The axes were marked on the surface with gold spots electrolytically deposited. The composition was checked on sliced-up specimens. Investigations were carried out on the single-crystal neutron spectrometer of the Ac.Sc. USSR, the method being similar to that used by Lowde. The accuracy of the intensity measurements was about 1%. Most specimens showed anomalous reflection curves. Contour plots were made of various reflections. Diagrams for the 020 reflection of two Ni-Fe alloys are reproduced. For one specimen, there was a difference amounting to a factor of 2.5 between the intensities of reflections hkl and hkl. Investigating Card2/3 this effect, a small slit was scanned across the diffracted

70-3-2-3/26
Investigation of the Defect Structure of Metallic Monocrystals by a .Neutron Diffraction Method

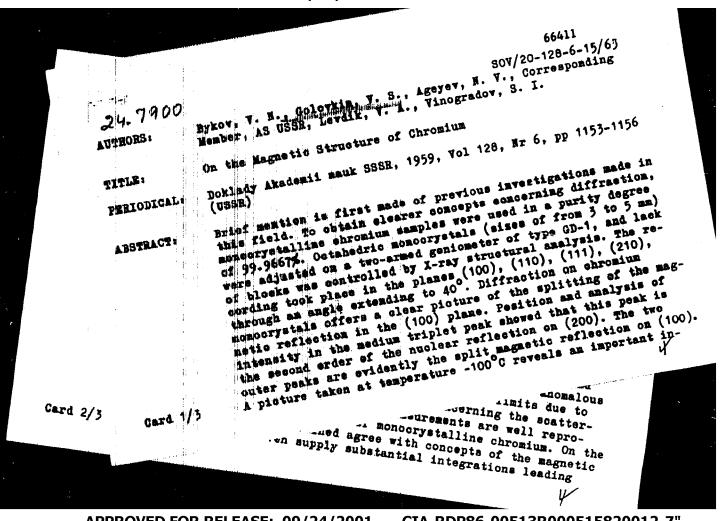
beam. The effect was shown not to be due to multiple diffraction. X-ray investigation of the specimen disclosed appreciable boundary regions separating fragments disoriented by up to 20°. This caused the reflections 222, 222, 222 and 222 to come only from one fragment and 222, 222, 222 and 222 to come from the other.

There are 5 figures, 1 table and 13 references, 4 of which are Soviet, 9 English.

ASSOCIATION: Institut metallofiziki (Institute of Metal Physics)

SUBMITTED: June 3, 1957

Card 3/3



On the Magnetic Structure of Chromium

66411 SOV/20-128-6-15/63

beyond the prevailing interpretation. The magnetic lattice of chromium is no repetition of the crystal lattice, but is deformed to a tetragonal symmetry. Certain directions are correlated with a minimum of energy which becomes crystallographically noticeable as a deviation of the magnetic lattice parameters from the nuclear lattice, i.e. by a certain degree of tetragonality of the magnetic lattice. The even peaks of split reflection on (100) agree with nuclear reflection as to the width, and they have at all temperatures the same distance from the theoretical position. The author thanks V. A. Trapeznikov for having supplied the chromium monocrystals. There are 4 figures and 13 references, 4 of which are Soviet.

SUBMITTED:

July 6, 1959

Card 3/3

GOLOWETH, V. B., LEVIDIK, V. A., VINCORADOV, S. I., BYKOV, V. N.

"The Problem of the Magnetic Structure of Chromium."

paper presented at the Symposium of the International Atomic Energy Agency on Pile Meutron Researth in Physics, Vienne, 17-21 Oct 1960.

GOLOVKIN, V. S

70-5-11/31

ATTHORS:

Bykov, V.M., Vinogradov, S.I., levdik, V.A. and Golovkin, V.S.

TITAL:

A Two-crystal Neutron Spectrometer (Dvukhkristal'nyy

Neytronnyy spektrometr)

PERIODICAL: Kristallografiya, 1957, Vol.2, No.5, pp. 634-638 (USSR)

ACT: The Soviet atomic pile used for power generation will provide a flux of 2. 10 neutrons/sec cm2 which can be used ABSTRACT: for diffraction. A 5 m steel tube emerges through the shielding and provides a naturally collimated beam of 24' divergence. The integrated thermal neutron flux falling on the monochromator is 10' neutrons/cm sec. The monochromatisation is by reflection from the 200 plane of a lead crystal 135 x 55 x 20 mm. The half width of the reflected beam is usually 37' corresponding to an energy uncertainty of 9%. There may also be 2.5% diffusely scattered neutrons. After monochromatisation the flux is about 104 neutrons/cm sec. The lead crystal which is behind 80 cm of concrete can be moved in any required direction to direct the beam down the final collimator which is made of paraffin and boron carbide. The apparatus is more properly called a diffractometer as the reflected intensities are measured on a boron trifluoride counter and recorded as in Cardl/2 X-ray diffractometry. The specimen counter distance is

A Two-crystal Neutron Spectrometer.

70-5-11/31

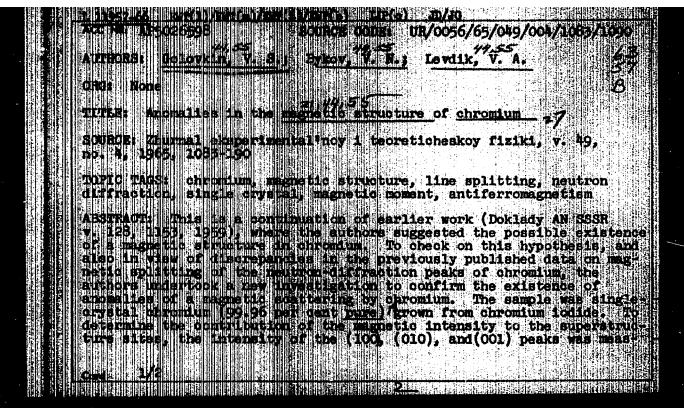
20 - 100 cm. Angles can be measured on a 110 cm dia. circle to 2'. A specimen to counter rotation ratio of 1:2 is provided. The counter has a diameter of 2 cm and a length of 27 cm; it is filled to 700 mmHg with BF3 enriched 4.7 X in B10. A test

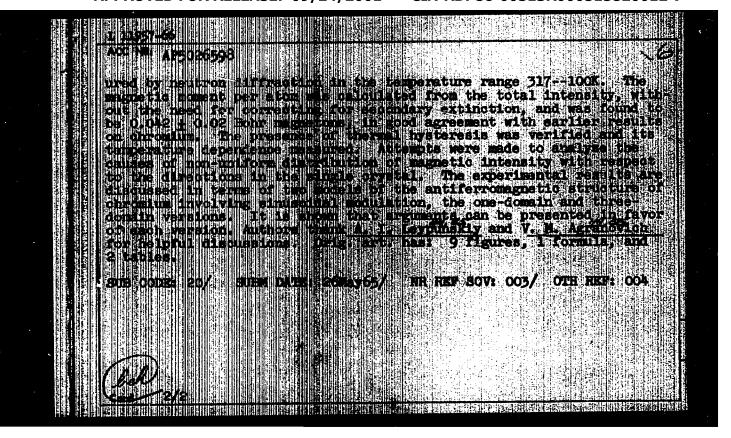
crystal of KBr of dimensions 6 x 6 x 8 mm gave peak counts of 3 100/min (200 reflection) with a uniform background of about 100/min and very satisfactory resolution. An iron rod (8 mm dia.) which was polycrystalline, gave peaks of 200/min with a background of 20/min. Acknowledgments to A.K. Krasin, V.S. Lyashenko and L.S. Gudkov.
There are 6 figures and 5 references, 2 of which are Slavic.

SUBMITTED: March 24, 1957.

AVAILABLE: Library of Congress

Card 2/2





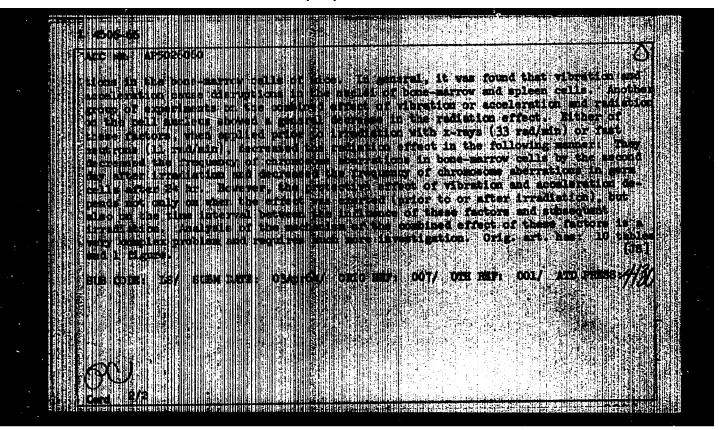
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ARSEN'YEVA, M.A.; EELYAYEVA, L.A.; COLCUKIBA, A.V.

Eiffect of the combined action of accelerations, vibration and radimation on cell nuclei of the bone marrow in mice.

Probl. kdam biol. 4:373-390 '65. (MIRA 18:9)

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L 47293-66 ERC(k)-2/EWT(1)/FCC/FSS-2 SCTB TT/DD/RD/GW
1. 47293-66 ERC(k)-2/EWT(1)/FCC/FSS-2 SCTB TT/DD/RD/GW  ACC NR: AP6031663 SOURCE CODE: UR/0216/66/000/005/0625/0643
AUTHOR: Frank, G. M.; Livshits, N. N.; Arsen'yeva, M. A.; Apanasenko, Z. I.; Belyayeva, L. A.; Golovkina, A. V.; Klimovitskiy, V. Ya.; Kuznetsova, M. A.; Luk'yanova, L. D.; Mayzerov, Ye. S.
ORG: Institute of Biological Physics, AN SSSR (Institut biologicheskoy fiziki & AN SSSR)
V
TITLE: The combined effect of spaceflight factors on some functions of the organism
SOURCE: AN SSSR. Izvestiya. Seriya biologicheskaya, no. 5, 1966, 625-643
TOPIC TAGS: central nervous system, biologic exidation, biologic metabolism, reflex activity, brain tissue, radiation effects, immining radiation biologic effect
ABSTRACT: Results of experiments studying the combined effect of spaceflight factors
hemodynamics, CNS functions, and cell division of hematopoietic organs) are dis-
cussed. Tolerance of the CNS to accelerations depends significantly on changes of brain hemodynamics during accelerations. Brain blood flow in rabbits subjected to
centrifugal accelerations in the head-foot direction () G in head region and io o
in malvis ration) for 12 to 60 sec decreased. This reaction was insignificant
during the first exposure, sharply increased during repeated exposure, and weakened after chronic exposure, thus indicating that tolerance to accelerations can be
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increased by training. Participation of CNS reflex mechanisms in these processes is probable. The 15-min exposure of guinea pigs to radial accelerations (8 G), centrifuged twice with a one-day interval, increased the spontaneous bioelectrical activity of extensor muscles; however, the effect was not lasting. It was lowered the day after the second contributation and was essentially the same as the control from the sixth day. The 15-min exposure of the unimals to vibrations (70 cps, 0.4 mm amplitude), twice with a one-day interval, produced less distinct but more stable changes, with normalization more than 25 days after the first vibration exposure. Changes in myoelectric activity during spaceflight (Sputnik-4) incorporated features of both acceleration and vibration effects, appreciably exceeding them in intensity. Oxidation processes in brain tissues, Judged by FO2 and "oxygen test" results, were initially increased in intensity by the effect of vibrations (using the above parameters), and subsequently underwent phase changes, including depression of oxidation metabolism during the aftereffect period. Changes in unconditioned defense and vestibulotonic reflexes and upper nervous activity were observed later than 12 days after vibration. Inhibition of food-procuring conditioned and defensive unconditioned reflexes in the majority of animals, with pronounced parakintic phenomena, was also bind. Exposure to 8-, 10-, and 20-G accelerations and vibration (700 cps, 0.005 mm, 60 min) resulted in decreased mitotic activity of bone-marrow cells for 30 days. Disturbances of cell division involved chromosomal stickiness and increase in the number of chromosomal aberrations. Ionizing radiations and the above dynamic factors produced a similar effect on oxidation metabolism in brain tissues and cellular division in hematopoietic organs. They differed

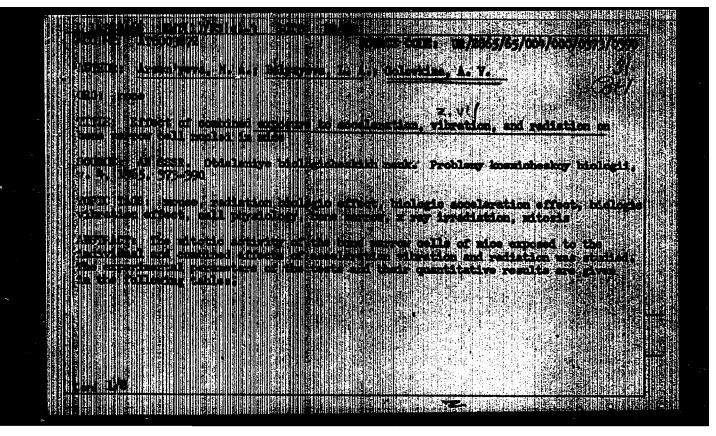
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ACC NR AP6031.663

only in the level and dynamics of changes caused. The combined effect of irradiation and dynamic factors either did not exceed or was less than the effect of each of the indicated factors separately, a phenomenon seen as a radioprotective action of dynamic factors. The relations observed are similar to phenomena of dominance and parabiosis. Typical radiation reactions were intensified when irradiation was combined with factors having directly opposed effects. The variation and complexity of results of the combination of dynamic factors and irradiation are explained by the multiplicity of the mechanisms of the combined effect of radiation and nonradiation factors. The combined exposure to vibration and whole-body acute irradiation at a lethal dose showe. that in a majority of cases the vibration effect on metabolism and CNS function va. dominant at early stages, while that of irradiation prevailed at later stages. At the latest stages of exposure, the combined effect of vibration and irradiation was diverse and complicated. According to some indices, the trend of changes corresponded to the effect of one of the factors while the dynamics of the processes reflected the effect of the other one. Under the uniform action of both factors, the phenomena of partial summation of weakening of the radiation effect, and in several cases of a sharp increase of radiation effect by the opposite action of the vibration effect, were observed. Probable mechanisms of the phenomena described are considered. Orig. art. has: [wal 13 figures.

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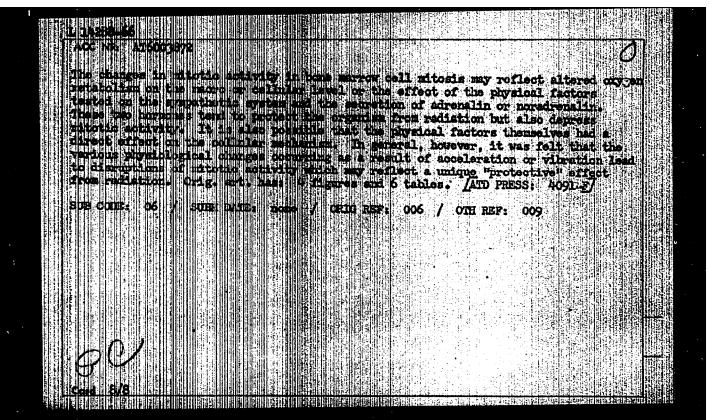
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ACC NR: AT7002500

SOURCE CODE: UR/0000/66/000/000/0122/0130

AUTHOR: Arsen yeva, M. A.; Golovkina, A. V.

ORG: Institute of Biological Physics, AN SSSR, Moscow (Institut biologicheskoy fiziki AN SSSR)

TITLE: Comparative analysis of the mutagenic effect of an alkylating compound (Thio TEPA) and radiation on mouse bone marrow cells

SOURCE: AN SSSR. Nauchnyy sovet Radiobiologiya. Vliyaniye ioniziruyushchikh izlucheniy na nasledstvennost' (Effect of ionizing radiation on heredity). Moscow, Izd-vo Nauka, 1966, 122-130 and inserts following p. 130

TOPIC TAGS: biologic mutation, radiation biochemical effect, radiation cell effect

ABSTRACT: A comparative analysis of the effect of radiation in a dose of 100 r and the intraperitoneal injection of Thio-TEPA in a dose of 4 mg/kg showed certain differences in the effect of these two mutagens when the bone marrow cells were studied. Thio-TEPA in the indicated dose caused an appreciably more pronounced cytotoxic and cytostatic effect than the radiation. The mutagenic effect of Thio-TEPA showed up at appreciably later periods after injection in comparison with the effect of radiation; it was found to be related with the appearance of both chromatid and chromosome aberrations. Orig. art. has: 4 tables and 5 figures. [26]

SUB CODE: 06/ SUBM DATE: 01Sep66/ ORIG REF: 002/ OTH REF: 006/ATD PRESS:5117

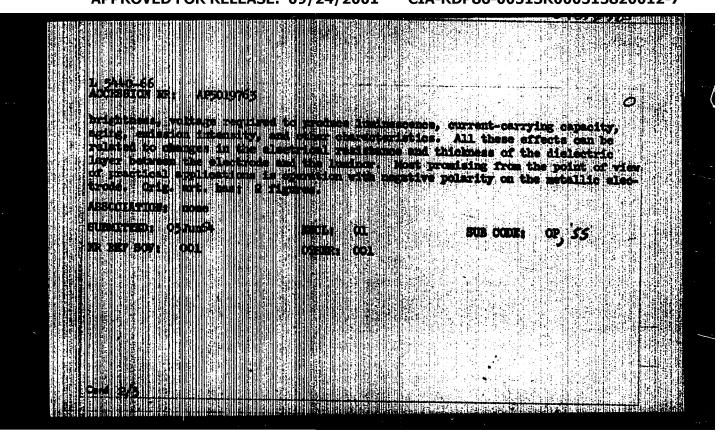
GOLOVKINA, E.D.; PASYNKOV, V.V.; KHANINA, G.N.

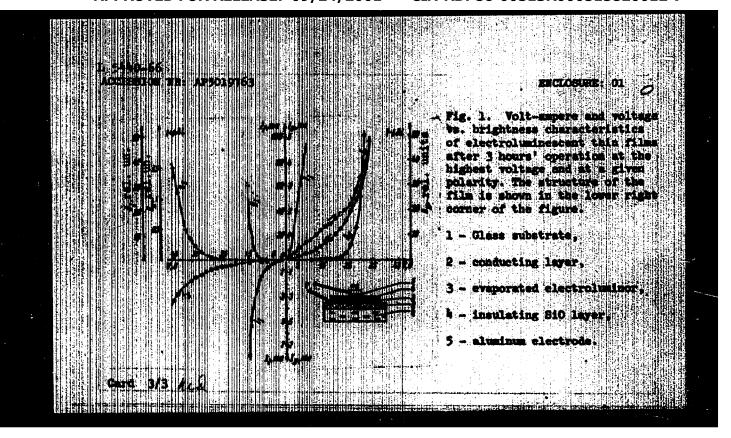
Low-voltage electroluminescence of sublimated films of Zno

Low-voltage electroluminescence of sublimated films of ZnS-Cu, Mn, Cl in a constant field. Opt. i spektr. 19 no.2: 281-283 Ag \*65. (MIRA 18:8)

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PAVLOVSKIY, P. Ye.; GOLOVKINA, G. P.

Proteclytic transformations occurring during the aging ar curing of pork meat. Izv. vys. ucheb.sav.; pishch.tekh.no. 2:31-34 '64. (MIRA 17:5)

1. Moskowskiy tekhnologicheskiy institut myasnoy i molochnoy promyshlennosti, kafedra biokhimii myasa.

Companison of Antiblotics produced by Abuta myses of the Fradise group. Mikrobiologifs 33 no.2332-36 March 10.	
1. Heavious ad krobiologid AN SSSR.	

# GOLOVKIMA, M.T., kand. tekhn. nauk

Fermentation method of preparing the main semiprocessed products in the liqueur and vodka manufacture. Trudy LEIKIP 13:17-27 \*57. (NIRA 13:6)

l. Kafedra obshchey i analiticheskoy khimii Leningradskogo tekhmologicheskogo instituta kholodil'noy promyshlennosti. (Liquor industry)

# GOLOVKINA, N.T. Biochemical changes in polyphenolic substances during the fermentation of vegetable raw material in the liqueur and vodka industry.

Biokhim, vin. no.5:134-142 157.

(MIRA 10:6) 1. Leningradskiy tekhnologicheskiy institut kholodil'noy promyshlemmosti.

(Distilling industries) (Fermentation)

OZIMOV. B.V.: VALPROVA, H.K.; GOLOVKINA, H.T.

Reflection spectra used in the analysis of food products. Trudy LTIKHF 15:81-86 158. (MIRA 13:4)

1. Predstavlena Kafedroy neorganicheskoy i analiticheskoy khimii Leningradekogo tekhnologicheskogo instituta kholodilinoy promyshlennosti.

(Wood---Spectra)

OZIMOV. B.V., kand. tekhn. nauk; VAL'KOVA, H.K., insh.; GOLOVKINA, M.T., kand. tekhn. nauk.

Reflection spectra of solid fats. Masl.-shir. prom. 24 no.2:10-11 '58. (MIRA 11:3)

1. Leningradskiy tekhnologicheskiy institut kholodil'noy promyshlennosti. (Oils and fats--Spectra)

HOVOTEL HOV, N.V.; GOLOVEINA, N.T.; STAVROVA, E.R.

Symergium between ascorbic acid and bioflavonoids. Manch. dokl.vys.shkoly; biol.nauki no.1:137-141 '59. (NIRA 12:5)

1. Rekomendovana kafedroy mikrobiologii i biokhimii Leningradskogo tekhnologicheskogo instituta kholodil'noy promyshlennosti. (ASCORBIC ACID) (FLAVONOIDS)

HOVOTELIMOV, N.V.; GOLOVKINA, M.T.

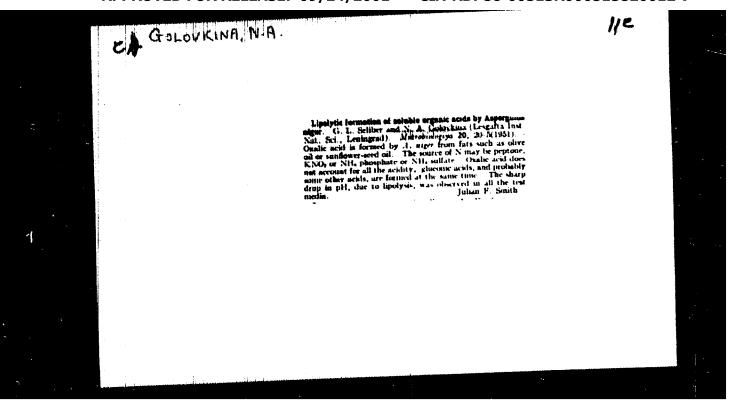
Changes in the poly phenolic complex of wild rose fruits in the process of fermentation by pectinase. Izv.vys.ucheb.zav.; pishch. tekh. no.6173-78 '61. (MIRA 15:2)

1. Leningradskiy tekhnologicheskiy institut kholodil'noy promyshlennosti, kafedra biokhimii i mikrobiologii.
(Roses)(Pectinase)

GOLOWKINA, H.T.; MOVOTEL'NOV, N.V.; VSHELYAKI, T.N.; PAVLOVETS, N.M.

Antiblotic properties of vitamin preparations obtained from the wild rose fruit by the fermentation method. Izv.vys.ucheb.zav.; pishch.takh. no.5143-46 '63. (MIRA 16:12)

l. Leningradskiy tekhnologicheskiy institut kholodil'noy promyshlennosti, kafedra mikrobiologii i biokhimii.



L 08213-67 BHT(m)/BMP(t)/BTI IJP(c) JD/WB	
ACC NR. AP6014504 (A,N) SOURCE CODE: UR/0317/66/000/004/0063/0066	7
AUTHOR: Lipin, A. (Condidate of chemical sciences; Engineer; Lieutenant colonel); Colovicina, M. (Engineer); Matveyeva, N. (Engineer)	
ORG: None	
TIPLE: Use and application of corrosion protection	
SOURCE: Tekhnikn i vooruzheniye, no. 4, 1966, 63-66	
TOPIC TACS: corrosion protection, electrolyte, electrolytic deposition, steel	
ARSTRACT: Various considerations on corrosion and preservation of metals are presented on the basis of experimental research and practical applications. The mechanism of electrochemical reactions in zinc and cadmium coatings, in phosphate and other oxide films is explained and illustrated. It is mentioned that the corrosion of cadmium coated surfaces can be 0.5 mm deep. The destruction of zinc films proceeds with a speed of 0.4 to 4 microns per year. In general, the electrolytic processes are more effective. A cadmium-mine electrolyte containing in one liter 14 g of zinc sulphate, 12 g of cadmium sulphate, 55 g of caustic potash and 55 g of Trilon A is considered the most effective. The effect of the current density and of the concentration of zinc salts on the cathode coatings is evaluated and graphically illustrated. The cadmium-zinc electrolyte has the same throwing power as the potansium cyanide electrolyte. The favorable effect of Trilon A on the increase of the cathode current density is stressed. The stability of cadmium-zinc electrolyte is high. The physical properties of cadmium-zinc are characterized by a microhard-	
ness of about 40 kg/sq mm and by the disappearance of porosity in layers of 3 microns and	
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and thicker. A pyrophosphate electrolyte (9 gr of stannic sulfate, 8 gr of zinc sulphate, 190 g of sodium pyrophosphate, 1 g of citric acid and 1 g of ammonium nitrate per one liter) is considered the most stable for obtaining a tin-zinc coating. Better results were obtained with electrolytes where sulphates were replaced by stannic chlorides. The Trilan pyrophosphate electrolyte is considered the best for obtaining tin-cadmium coatings. Cme liter of this electrolyte contains 12 to 45 g cadmium sulphate, 15 g of stannic chloride, 60 g of sodium pyrophosphate, 25 to 85 g of Trilon A, 10 g of phenol and 5 to 8 ml of triethanolandne. Its high throw power and increase of current density are stressed. Corrosion-resistant properties of various coatings were tested and compared. The best results were obtained with cadmium-zinc coatings containing 18 to 20% of zinc. In general, mechanical strength of metals were little affected by coatings. Some examples for certain types of steel are cited. The lost effective phosphate processes are summarized in a table indicating electrolyte solutions, processing temperatures and duration. In general, combined phosphate and cadmium films resist better against corrosion than ordinary phosphate coatings ( as shown in a comparative diagram). Orig. art. has: 3 diagrams and l table.

SUB CODE: 07, 13/ SUBM DATE: None

card 2/2 egla

SELIBER, G.L.; GOLOVKINA, N.A.

Affect of osmotic pressure on the formation of anylase by Aspergillus orysae, [with summary in English]. Mikrobiolog is, 26 no.3:292-296 My-Js '57.

(MIRA 10:10)

1. Gosudarstvennyy yestestvenno-nauchnyy institut im. P.F.Lesgafts, leningred.

(AMTLASES,

Aspergillus orysae, eff. of osmotic pressure on synthesis (Rus))

(ASPERGILLUS, metabolism,

orysae, smylase synthesis, eff. of osmotic pressure (Lus))

PREVO, Anatoliy Anatoliyevich; PEL'TSER, Sergey Uskarovich;

KHODANOVICH, Ye.Ye., kand. sel'khoz. nauk, retsenzent;

SAVEL'YEV, I.K., kand. sel'khoz. nauk, retsenzent;

GOLOVKINA, N.M., prepod. sredney shkoly, retsenzent;

YEMEL'YANOV, F.V., red.; YEFIMOV, A.L., red.; TSYPKO, R.V., tekhn, red.

[Poultry raising] Ptitsevodstvo; uchebnoe rukovodstvo dlia uchashchikhsia sel'skikh srednikh shkol s proizvodstvennym obuchaniem. Moskva, Uchpedgis, 1963. 189 p. (MIRA 16:10)

(Poultry)

KOLBANOVSKAYA, A.S.; HIKHAYLOV, V.V.; Prinimali uchastiye: YEFIMOVA, L.I.; DAYYDOVA, A.R.; GOLOVKINA, O.K.; BUGAYEVA, G.N.

Structural and mechanical properties of bitumens from various sources. Part 1: Viscosity, thermal and mechanical properties of road bitumens of various chemical compositions. Koll.zhur. 23 mo.6:718-725 N-D '61. (MIRA 14:12)

1. Ysesoyuznyy dorozhnyy nauchno-issledovatel skiy institut, Moskva.
(Bitumen)

# KOLBANOVSKAYA, A.S.; GOLOVKINA, O.K.

Chemical composition and properties of road petroleum asphalts. Khim.i tekh.topl.i masel 7 no.2:31-36 F '62. (MIRA 15:1)

1. Gosudarstvennyy vsesoyuznyy dorozhnyy nauchno-issledovatel'skiy -institut. (Petroleum products)

(Road materials)

KONTUSHENKO, A.T.; GOLOVKINA, R.V.; KONONOVA, V.I.; SHEVAKIN, Yu.F.

Investigating the resistance welding process of pipe with a 300-hertz frequency current. Avtom.svar. 17 no.1:21-24 Ja 64. (MIRA 17:3)

- 1. Moskovskiy trubnyy zavod (for Konyushenko, Gelovkin, Kononova). 2. Moskovskiy institut stali i splavov (for Shevakin).

GOLOVKINA, T.V

MIKHALEV, V.A.; DOROKHOVA, M.I.; SMOLINA, M.Ye.; ZHELOKHOVTSEVA, A.M.; TIHHOHOVA, O.Ya.; SKOLDIMOV, A.P.; ARMEDARUK, A.P.; SMOLIH, D.D.; GULOVKINA, T.V.; SLOHOVA, L.A.

Styrene as an initial product for synthomycetin and levomycetin production. Fart 2: Synthesis of p-nitroacetophenone and p-nitro-A-bromacetophenone. Antibiotiki 4 no.4:21-24 J1-Ag (HIRA 12:11)

1. Vsessyusnyy nauchno-issledovatel skiy khimiko-farmatsevticheskiy institut imeni S.Ordshonikidse (for Mikhalev, Dorokhova, Smolina, Zhelokhovtseva, Tikhonova). 2. Institut farmakologii i khimio-terapii AMN SSSR (for Skoldinov, Arendaruk, Smolin, Golovkina, Slonova).

(CHLORAMPHENICOL often) (KETCHES chem)

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GOLOVKINA, YE. F.

"Development of the Students' Thinking during Study of the High-School Course of History." Min Education RSFSR, Moscow Oblast Pedagogic Inst, Moscow, 1955. (Dissertation for the Degree of Candidate of Pedagogic Sciences)

SO: M-972, 20 Feb 56

GOLOVKO, A.

Tractors - Hotors

Repairing the flywheel of the P-10 actuating motor. MTS 13, No. 1, 1953.

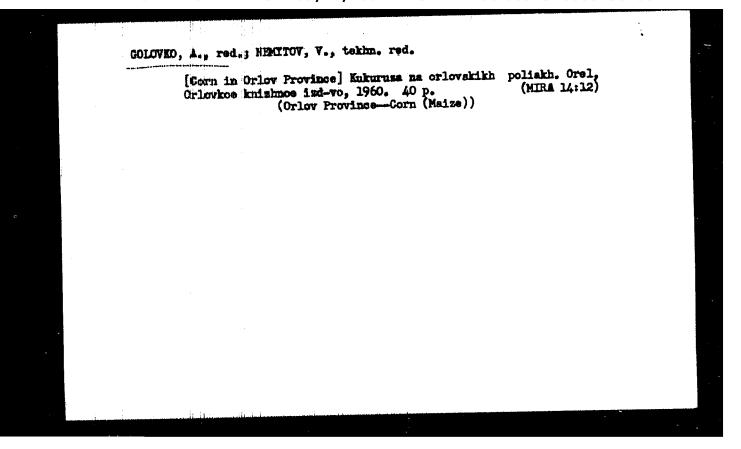
Monthly List of Russian Aggessions, Library of Congress June 1953. URGL.

GOLOVKO, A.

Tractors - Repairing

Repair of links in the S-80 and DT-54 tractors. MTS 13, No. 3, 1953.

Monthly List of Russian Accessions, Library of Congress June 1953. NGL.



GOLOVKO, A. F.

"The Pathogenesis and Clinical Manifestations of Affection of the Nervous System During Helminthiasis." Cand Med Sci, L'vov State Medical Inst, L'vov, 1953. (RZhBiol, No 7, Dec 54)

Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (12) SO: Sum. No. 556, Jun 55

. 28(5) AUTHORS:

SOV/64-59-3-19/24

Ovcharenko, B. G., Golovko, A. F., Vosvilov, N. M., Avilova, M. K.

TITLE:

Experiment of Applying a Column of the Ammonia Synthesis With a Top GIAP-DATZ (Opyt ekspluatatsii kolonn sinteza ammiaka s

nasadkoy GIAP-DATZ)

PERIODICAL:

Khimicheskaya promyshlennost', 1959, Nr 3, pp 82-85 (USSR)

ABSTRACT:

Until recently the Dneprodzerzhinskiy azotnotukovyy zavod (Dneprodzerzhinsk Mitrogen Fertilizer Works) used a supplemented attachment according to Fauser with two tubular heat exchangers and a secondary pipe for supplying cold gas (Fig 1). It was found out however, that this attachment does not offer optimum temperature conditions. In 1950 a new type of attachment was developed in the GIAP by S. S. Lachinov and

ment was developed in the GIAP by S. S. Lachinov and constructed in the DATZ in two constructional types (Fig 2). The attachment has two heat exchangers in the catalyst chamber, and 2 secondary pipes for the supply with cold gas, and it is called GIAP-DATZ (abbr. GD-2). Some data are given on the application of a column (D = 0.85, H = 14 m) with a attachment GD-2 and iron catalysts with two accelerators  $(K_2O)$  and  $(K_2O)$ .

Card 1/2

Experiment of Applying a Column of the America Synthesis With a Top GIAP-DATZ

SOV/64-59-3-19/24

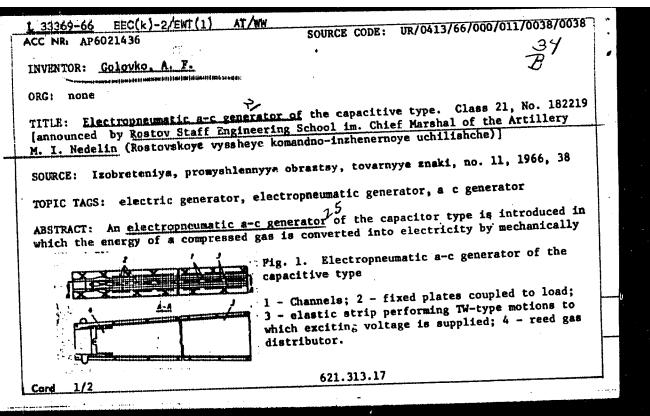
The results achieved after 1- and 6 months of its application (Table 1) show that  $\Delta \%$  NH<sub>3</sub>  $\approx$  12.5 ( $\Delta$  NH<sub>3</sub> = difference in % of the NH<sub>3</sub> content before and after the column) and the maximum capacity amount to 120-125 t/day, while it only was 100 t/day with the old type. Corresponding experiments were carried out in order to examine the effect of the second secondary pipe for cold gas on the increase of the capacity after one year, the results are given (Table 2). A column with an attachment GD-2 can work very stably, also with a gas supply up to 30% through the second secondary cold gas pipe, this caused an increase in the capacity by 70%. Examinations carried out during 20 days on a column which already had worked for 1.5 months showed (Table 3) that 140 t NH<sub>3</sub>/day are yielded with  $\Delta$  NNH<sub>3</sub>  $\approx$  13 and with a gas circulation of about 70,000 Nm<sup>3</sup>/hour, with the attachment GD-2 on the active catalyst. There are 2 figures and 3 tables.

Card 2/2

GOLOVKO, A.F.; RUD', L.V.; BUKHOVTSEV, F.P.; BUMATSENKO, A.A. (L'vev)

Early hospitalization of patients with acute disorders of cerebral circulation. Vrach. delo no.3x68-71 Mr 164. (MIRA 17:4)

1. Kafedra nervnykh bolezney L'vovskogo meditsinskogo instituta i nefrologicheskoye otdeleniye L'vovskoy oblastnoy klinicheskoy bol'nitsy.



section made of fixed i strips placed inside the pulses. Self-partition	itances between the individual oppositely charged particle to increase the use of the compressed gas energy, the in the form of longitudinal channels with a rectangular insulated plates. The movable part consists of insulate channels and perform TW-type motions under the action in greed gas distributors, due to the action of aerodynathe inlet to the channels. Orig. art. has: 1 figure.	cross
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#### GOLOVED, A.I.

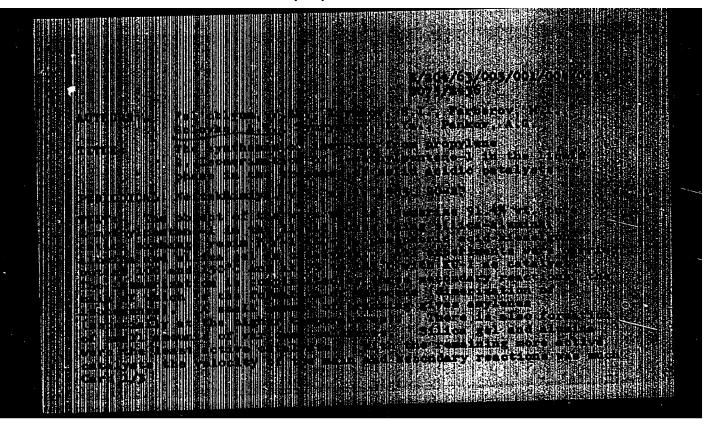
Hygienic evaluation of standard designs for schools and preschools. Gig. 1 san. 24 no.6:52-54 Je 159. (MIRA 12:8)

1. Is Ehur'kovskoy oblastnoy sanitarno-spidemiologicheskoy stantsii.

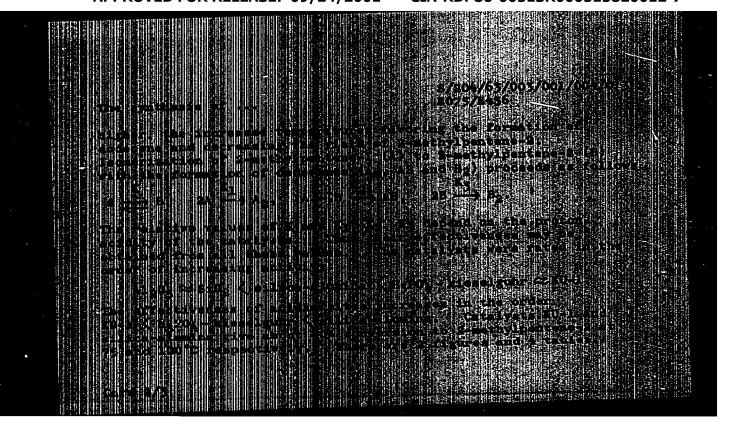
(SCHOOL HEALTH

hyg. evaluation of standard designs for schools & preschool institutions (Rus))

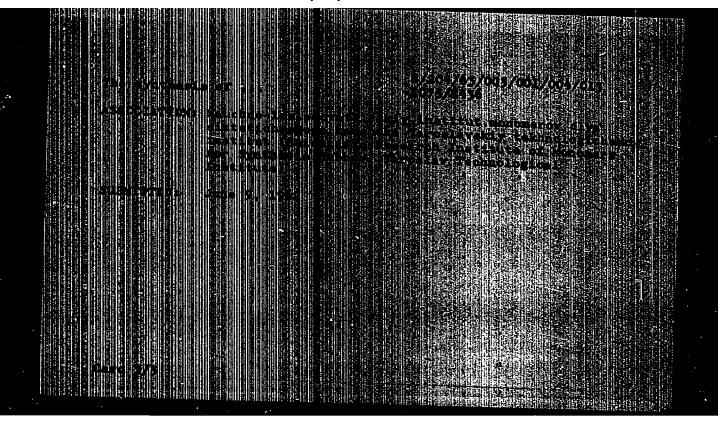
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KOMAROVA, E.P. [Kamarova, E.P.]; GOLOVKO, A.I. [Halauko, A.I.]

Hydnaceae of White Russia. Vestsi AN BSSR. Ser. biial. nav.
no.3:115-123 '65. (MIRA 18:11)